Claire Roiland

List of Publications by Year
in descending order

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52 papers	1,310 citations	361413 20 h-index	361022 35 g-index
52 all docs	52 docs citations	52 times ranked	2046 citing authors

#	Article	IF	Citations
1	Correlation between structure and physical properties of chalcogenide glasses in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>As</mml:mtext></mml:mrow><mml:mi>x</mml:mi></mml:msub> Physical Review B, 2010, 82, .	3.2	117
2	Coordination Polymers Based on Heterohexanuclear Rare Earth Complexes: Toward Independent Luminescence Brightness and Color Tuning. Inorganic Chemistry, 2013, 52, 6720-6730.	4.0	82
3	Multinuclear NMR as a tool for studying local order and dynamics in CH₃NH₃PbX₃ (X = Cl, Br, I) hybrid perovskites. Physical Chemistry Chemical Physics, 2016, 18, 27133-27142.	2.8	78
4	Investigation of the Interface in Silica-Encapsulated Liposomes by Combining Solid State NMR and First Principles Calculations. Journal of the American Chemical Society, 2011, 133, 16815-16827.	13.7	69
5	Extended Investigations on Luminescent Cs₂[Mo₆Br₁₄]@SiO₂ Nanoparticles: Physico-Structural Characterizations and Toxicity Studies. Journal of Physical Chemistry C, 2013, 117, 20154-20163.	3.1	68
6	From Phase Separation to Nanocrystallization in Fluorosilicate Glasses: Structural Design of Highly Luminescent Glass-Ceramics. Journal of Physical Chemistry C, 2016, 120, 17726-17732.	3.1	63
7	Structure and dynamics of oxide melts and glasses: A view from multinuclear and high temperature NMR. Journal of Non-Crystalline Solids, 2008, 354, 249-254.	3.1	59
8	Fragile-strong behavior in the As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>glass forming system in relation to structural dimensionality. Physical Review B, 2012, 85, .	3.2	59
9	A solid state highly emissive Cu(<scp>i</scp>) metallacycle: promotion of cuprophilic interactions at the excited states. Chemical Communications, 2016, 52, 11370-11373.	4.1	59
10	Processing and characterization of novel borophosphate glasses and fibers for medical applications. Journal of Non-Crystalline Solids, 2015, 425, 52-60.	3.1	45
11	Multi-Emissive Lanthanide-Based Coordination Polymers for Potential Application as Luminescent Bar-Codes. Inorganic Chemistry, 2019, 58, 2659-2668.	4.0	43
12	Solventless and Metalâ€Free Synthesis of Highâ€Molecularâ€Mass Polyaminoboranes from Diisopropylaminoborane and Primary Amines. Angewandte Chemie - International Edition, 2018, 57, 1519-1522.	13.8	40
13	From metallic cluster-based ceramics to nematic hybrid liquid crystals: a double supramolecular approach. Chemical Communications, 2015, 51, 3774-3777.	4.1	38
14	In situ evaluation of interfacial affinity in CeO2 based hybrid nanoparticles by pulsed field gradient NMR. Chemical Communications, 2005, , 1019.	4.1	37
15	Triple-quantum correlation NMR experiments in solids using J-couplings. Journal of Magnetic Resonance, 2006, 179, 49-57.	2.1	36
16	Characterization of the disordered phosphate network in CaOâ€“P2O5 glasses by 31P solid-state NMR and Raman spectroscopies. Journal of Non-Crystalline Solids, 2011, 357, 1636-1646.	3.1	34
17	77Se solid-state NMR investigations on AsxSe1â^’x glasses using CPMG acquisition under MAS. Solid State Nuclear Magnetic Resonance, 2011, 40, 72-77.	2.3	26
18	Structure and Dynamics of Heteroprotein Coacervates. Langmuir, 2016, 32, 7821-7828.	3.5	20

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19	Impurities enhance caking in lactose powder. Journal of Food Engineering, 2017, 198, 91-97.	5.2	20
20	Direct Integration of Redâ€NIR Emissive Ceramicâ€like A_nM₆Xⁱ₈X^a₆ Metal Cluster Salts in Organic Copolymers Using Supramolecular Interactions. Chemistry - A European Journal, 2018, 24, 4825-4829.	3.3	20
21	Lord of The Crowns: A New Precious in the Kingdom of Clustomesogens. Angewandte Chemie - International Edition, 2018, 57, 11692-11696.	13.8	20
22	A combined⁷⁷Se NMR and molecular dynamics contribution to the structural understanding of the chalcogenide glasses. Physical Chemistry Chemical Physics, 2014, 16, 17975-17982.	2.8	19
23	Soil Calcium Availability Influences Shell Ecophenotype Formation in the Sub-Antarctic Land Snail, Notodiscus hookeri. PLoS ONE, 2013, 8, e84527.	2.5	19
24	Recrystallized S-Layer Protein of a Probiotic Propionibacterium: Structural and Nanomechanical Changes upon Temperature or pH Shifts Probed by Solid-State NMR and AFM. Langmuir, 2015, 31, 199-208.	3.5	18
25	Influence of P2O5 and Al2O3 content on the structure of erbium-doped borosilicate glasses and on their physical, thermal, optical and luminescence properties. Materials Research Bulletin, 2015, 63, 41-50.	5.2	18
26	Chitosan effects on glass matrices evaluated by biomaterial. MAS-NMR and biological investigations. Korean Journal of Chemical Engineering, 2013, 30, 1775-1783.	2.7	16
27	DFT-assisted structure determination of Î±1- and Î±2-VOPO4: new insights into the understanding of the catalytic performances of vanadium phosphates. Dalton Transactions, 2013, 42, 8124.	3.3	16
28	Structure of Arsenic Selenide Glasses Studied by NMR: Selenium Chain Length Distributions and the Flory Model. Journal of Physical Chemistry C, 2015, 119, 11852-11857.	3.1	16
29	77Se solid-state NMR of As2Se3, As4Se4 and As4Se3 crystals: a combined experimental and computational study. Physical Chemistry Chemical Physics, 2013, 15, 6284.	2.8	15
30	Strong Solidâ€state Luminescence Enhancement in Supramolecular Assemblies of Polyoxometalate and â€œAggregationâ€Induced Emissionâ€â€active Phospholium. Chemistry - an Asian Journal, 2019, 14, 1642-1646.	3.3	15
31	Initial stage of physical ageing in network glasses. Philosophical Magazine, 2012, 92, 4182-4193.	1.6	11
32	Study of the Ge20Te80-xSex glassy structures by combining solid state NMR, vibrational spectroscopies and DFT modelling. Journal of Solid State Chemistry, 2021, 297, 122062.	2.9	11
33	Impact of Te on the structure and⁷⁷Se NMR spectra of Se-rich Geâ€“Teâ€“Se glasses: a combined experimental and computational investigation. Physical Chemistry Chemical Physics, 2015, 17, 29020-29026.	2.8	10
34	Luminescence properties of lanthanide complexes-based molecular alloys. Inorganica Chimica Acta, 2020, 501, 119309.	2.4	10
35	Risedronate adsorption on bioactive glass surface for applications as bone biomaterial. Applied Surface Science, 2016, 367, 205-213.	6.1	9
36	Structure of arsenic selenide glasses by Raman and 77Se NMR with a multivariate curve resolution approach. Journal of Non-Crystalline Solids, 2016, 447, 322-328.	3.1	9

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37	Uncatalyzed Formation of Polyaminoboranes from Diisopropylaminoborane and Primary Amines: a Kinetically Controlled Polymerization Reaction. Advanced Synthesis and Catalysis, 2021, 363, 2417-2426.	4.3	8
38	71Ga NMR in chalcogenide and chalco-halide glasses. Journal of Non-Crystalline Solids, 2014, 383, 216-221.	3.1	7
39	Thermoanalytical properties and structure of (As2Se3)100â^'x(Sb2Se3)x glasses by Raman and 77Se MAS NMR using a multivariate curve resolution approach. Journal of Non-Crystalline Solids, 2016, 432, 426-431.	3.1	7
40	Structural study by Raman spectroscopy and 77Se NMR of GeSe4 and 80GeSe2â€“20Ga2Se3 glasses synthesized by mechanical milling. Journal of Non-Crystalline Solids, 2016, 431, 16-20.	3.1	6
41	Study of bioactive glass ceramic for use as bone biomaterial in vivo: Investigation by nuclear magnetic resonance and histology. Ceramics International, 2016, 42, 4827-4836.	4.8	5
42	Luminescent liquid crystalline hybrid materials by embedding octahedral molybdenum cluster anions with soft organic shells derived from tribenzo[18]crown-6. Dalton Transactions, 2018, 47, 14340-14351.	3.3	5
43	Anomalous Dynamics of a Nanoconfined Gas in a Soft Metalâ€“Organics Framework. Journal of Physical Chemistry Letters, 2019, 10, 1698-1708.	4.6	5
44	Long-term natural physical aging in glassy Ge5Se95 as probed by combined NMR and PAL spectroscopy. Journal of Non-Crystalline Solids, 2014, 392-393, 1-5.	3.1	4
45	Synthesis, crystal structure of the ammonium vanadyl oxalatophosphite and its controlled conversion into catalytic vanadyl phosphates. Journal of Solid State Chemistry, 2017, 253, 73-77.	2.9	3
46	Ultrastable phonon frequencies in Î± -quartz-type BPO4 at high temperature. Applied Physics Letters, 2019, 115, .	3.3	3
47	Rationalization of solid-state NMR multi-pulse decoupling strategies: Coupling of spin Iâ€¯=â€¯Â½ and half-integer quadrupolar nuclei. Journal of Magnetic Resonance, 2019, 303, 48-56.	2.1	3
48	Risedronate Effects on the In Vivo Bioactive Glass Behavior: Nuclear Magnetic Resonance and Histopathological Studies. BioMed Research International, 2019, 2019, 1-16.	1.9	3
49	Structure of Ga-Sb-Se glasses by combination of 77Se NMR and neutron diffraction experiments with molecular dynamics. Journal of Non-Crystalline Solids, 2021, 557, 120574.	3.1	3
50	Lord of The Crowns: A New Precious in the Kingdom of Clustomesogens. Angewandte Chemie, 2018, 130, 11866-11870.	2.0	2
51	Novel TaPO5â^'xN2x/3 oxynitrides. Journal of Alloys and Compounds, 2012, 513, 530-538.	5.5	1
52	Combined NMR and X-ray diffraction study of structural aspects, dynamics and charge ordering mechanism in LixVOPO4.2H2O intercalation compounds. Solid State Nuclear Magnetic Resonance, 2019, 104, 101623.	2.3	0